JC03 Rec'd PCT/PTO 2 7 SEP 2005

PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021 Idemark Office, U.S. DEPARTMENT OF COMMERCE U.S. Patent ormation unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** ATTORNEY'S DOCKET NUMBER 700355-052696

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/535,748

INTERNATIONAL APPLICATION NO. PCT/US2003/038186 INTERNATIONAL FILING DATE 25 November 2003

PRIORITY DATE CLAIMED 25 November 2002

	TITLE OF INVENTION ELECTRO-OPTICAL NUCLEIC ACID-BASED SENSOR ARRAY AND METHOD FOR					
	DETECTING ANALYTES APPLICANT(S) FOR DO/EO/US White et al.					
Applican	t herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1.	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
2. X	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.					
з. 🗌	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.					
4.	The US has been elected (Article 31).					
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))					
	a. is attached hereto (required only if not communicated by the International Bureau).					
	b. has been communicated by the International Bureau.					
	c. is not required, as the application was filed in the United States Receiving Office (RO/US).					
6.	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).					
	a. is attached hereto.					
	b. has been previously submitted under 35 U.S.C. 154(d)(4).					
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))					
1	a. are attached hereto (required only if not communicated by the International Bureau).					
	b. have been communicated by the International Bureau.					
	c. have not been made; however, the time limit for making such amendments has NOT expired.					
	d. have not been made and will not be made.					
8.	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. X	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
10	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).					
Item	ns 11 to 20 below concern document(s) or information included:					
11.	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.					
12.	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
13.	A preliminary amendment.					
14.	An Application Data Sheet under 37 CFR 1.76.					
15.	A substitute specification.					
16. X	A power of attorney and/or change of address letter.					
17	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Page 1 of 3 Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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10/535,748				WENTENDEZH EGAMONNO.		700355-052696	
	ns or informati nition Statem	on: eent, Return Red	ceipt Postcard.				
The follow	ng fees have b	een submitted			CALCULATIONS	PTO USE ONLY	
	ational fee (37	\$					
22. Examina	ation fee (37 CF	FR 1.492(c))			·		
If the written opinion by IPEA/US All other situations.	indicates all cl	\$					
If the written opinion IPEA/US inc Search fee (37 CFR International International Search	dicates all claim 1.445(a)(2)) had I Searching Au Report prepart Emmunicated to	\$					
TC	TAL OF 21 22	23 =			0.00)	
TOTAL OF 21, 22 and 23 = Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets E	xtra Sheets		additional 50 or fraction up to a whole number)	RATE			
- 100 =	/50 =			× \$250	\$ 0.00)1	
			h fee, examination fee, or the e (37 CFR 1.492(h)).	e oath or declaration	\$ 0.00		
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$		
Total claims		- 20 =		× \$ 50	\$ ·		
Independent claims		- 3 =		x \$200	\$		
MULTIPLE DEPEN	DENT CLAIM(S	(if applicable)		+ \$360	\$		
		\$ 0.00)				
Applicant claim	s small entity st	atus. See 37 CFI	R 1.27. Fees above are redu	ced by 1/2.			
				SUBTOTAL =	\$ 0.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$	0.00	
-			TOTA	L NATIONAL FEE =	\$	0.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$	0.00	
TOTAL FEES ENCLOSED =					\$	0.00	
	-				Amount to be refunded:	\$	
					Amount to be charged	\$	

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а. 🗌	A check in the amount of \$	to cover the above	fees is enclosed.					
ь. 🗀	Please charge my Deposit Account NoA duplicate copy of this sheet is enclosed.	_ in the amount of \$ _	to cover the above fees.					
c. X	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0850 . A duplicate copy of this sheet is enclosed.							
d. 🗀	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: \ and gra	Where an appropriate time limit under 37 CFR 1.495 nted to restore the International Application to pen	s has not been met, a ding status.	a petition to revive (37 CFR 1.137(a) or (b)) must be filed					
David Nixon 100 S	LL CORRESPONDENCE TO: S. Resnick Peabody LLP ummer Street n, MA 02110-2131		SIGNATURE David S. Resnick/Leena H. Karttunen NAME 34,235/L0207 REGISTRATION NUMBER					
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Practitioner's Docket No. 701826-052696

IN THE UNITED STATES RECEIVING OFFICE

International Application Number	International Filing Date	International Earliest Priority Date 25 November 2002	
PCT/US2003/038186	25 November 2003		
	25.11.03	25.11.02	

TITLE OF INVENTION:

ELECTRO-OPTICAL NUCLEIC ACID-BASED SENSOR

ARRAY AND METHOD FOR DETECTING ANALYTES

APPLICANT FOR DO/US:

TUFTS UNIVERSITY

INVENTORS FOR DO/US:

WHITE, Joel E. and KAUER, John S.

U.S. SERIAL NO.:

TO BE ASSIGNED

VERIFIED CERTIFICATION OF EXPRESS MAILING DATE (INTERNATIONAL APPLICATION (37 C.F.R. section 1.10(c))

I declare that, on September 27, 2005, I deposited, with the United States Postal Service, in an envelope "Express Mail, Post Office to Addressee," bearing Label Number EV 653001993 US, addressed to the "MAIL STOP PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450," and having an express mail certification that I executed, the following papers:

- 1. Transmittal Letter to the U.S. Receiving Office Concerning a Filing Under 35 U.S.C. 371 page 3 in duplicate (4 pps.);
- 2. Executed Declaration and Power of Attorney (4 pps.);
- 3. Copy Limited Recognition Under 37 CFR § 11.9(b) (1 pg.); and
- 4. Return Receipt Postcard.

A copy of the papers from the file of this application is attached.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

Date: Sept. 27, 2005

Heidi Wright

(type or print name of person certifying)